

The Gantt chart displays the timeline for the 'Distribution System Interconnection Capacity Mapping Plan' across 20 years (2021-2040). The tasks are categorized into several orders and sub-orders, with specific details for each task including duration, predecessors, and assigned resources.

Legend:

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- J. Gutierrez
- I. Reyes, J. Badenhorst, J. Gutierrez
- A. Nassif
- C. Loo, A. Nassif
- G. Sanchez, J. Lu, A. Enayati
- S. Ellis, S. Erb
- D. Wilvers, A. Nassif
- Contractor, F. Ramos
- Contractor
- Contractor

Key Tasks and Durations:

- Order 1: Voltage Level Map** (1552 days)
- Order 2: Preliminary Maps of Interconnection Capacity (HC Maps)** (175 days)
- Order 3: Power Grid Inventory** (1545 days)
 - 3a Geographic position of circuits and service transformers (1545 days)
 - 3b Visibility level and availability of operational information of the distribution system (174 days)
 - 3c Availability or absence of demand profile information (144 days)
 - 3d Identification of DER, categorized by type of resource, operational capacity, and distribution feeder (159 days)
 - 3e Typical daily profile of DER services (174 days)
 - 3f Identification of state and remaining life of service transformers and distribution substations (1545 days)
 - 3g Technical and non-technical losses (174 days)
 - 3h Physical and cyber vulnerabilities of distribution substations (1283 days)
 - 3i Critical loads, priority loads, and candidates for supplementary interconnection studies (174 days)
 - 3j Location, state, and joint use of each distribution pole (1545 days)
- Order 4: Engage Phase** (17 days)
- Order 5: Contract** (10 days)
- Order 6: GIS Voltage Levels Update** (30 days)
- Order 7: GIS Map with feeders that required supplementary studies (>15%)** (30 days)
- Order 8: Certify GIS Accuracy Level** (30 days)
- Order 9: Data Migration from G/Tech to ESRI** (5 days)
- Order 10: Build ESRI App** (5 days)
- Order 11: PREP AEE Integration** (20 hrs)
- Order 12: Technical Solution** (73 days)
 - Design (30 days)
 - Build (30 days)
 - Deploy (10 days)
- Order 13: Mid term Project Review** (5 days)
- Order 14: Rudimentary Interconnection Capacity** (15 days)
- Order 15: Collect GIS data** (15 days)
- Order 16: Modeling and simulation** (30 days)
- Order 17: Update interactive maps** (20 days)
- Order 18: Report Preparation** (10 days)
- Order 19: Final Project and Report review** (10 days)
- Order 20: Interconnection Capacity criteria** (10 days)
- Order 21: DG data and Process** (30 days)
- Order 22: Loading Data and Process** (50 days)
- Order 23: Mid term Project Review** (5 days)
- Order 24: Rudimentary Interconnection Capacity** (15 days)
- Order 25: Collect GIS data** (15 days)
- Order 26: Modeling and simulation** (30 days)
- Order 27: Update interactive maps** (20 days)
- Order 28: Report Preparation** (10 days)
- Order 29: Final Project and Report review** (10 days)
- Order 30: Assess quality of circuit and service transformer position data in GIS; identify gaps.** (43 days)
- Order 31: Coordinate data collection efforts with GIS data collection and verification plan.** (22 days)
- Order 32: Prepare GIS and asset data collection RFP.** (110 days)
- Order 33: Collect missing data.** (31 days)
- Order 34: Aggregate and enter data into the selected storage medium.** (31 days)
- Order 35: Assess availability of SCADA visibility information.** (43 days)
- Order 36: Determine preferred method for storing data (GIS field, other database, etc.).** (23 days)
- Order 37: Collect visibility data.** (22 days)
- Order 38: Enter data into the selected storage medium.** (66 days)
- Order 39: Assess availability or absence of demand profile information** (144 days)
- Order 40: Determine preferred method for storing data (GIS field, other database, etc.).** (23 days)
- Order 41: Collect availability data.** (22 days)
- Order 42: Aggregate and process data into the selected storage medium.** (45 days)
- Order 43: Assess DER information available in GIS and other source - coordinate with order 2** (43 days)
- Order 44: Collect DER data - coordinate with order 2.** (65 days)
- Order 45: Enter missing data into GIS** (45 days)
- Order 46: Assess DER profile information.** (43 days)
- Order 47: Determine preferred method for storing data (GIS field, other database, etc.).** (23 days)
- Order 48: Collect and calculate DER profile data. (coordinate with 3.3.x)** (43 days)
- Order 49: Enter profile data into the selected storage medium.** (66 days)
- Order 50: Assess available asset data (GIS, MS Access, etc.)** (43 days)
- Order 51: Determine preferred method for storing data (GIS field, other database, etc.).** (23 days)
- Order 52: Coordinate data collection efforts with GIS data collection and verification plan.** (22 days)
- Order 53: Prepare GIS and asset data collection RFP.** (110 days)
- Order 54: Collect missing data.** (3155, 55 days)
- Order 55: Aggregate and process data into the selected storage medium.** (3170 days)
- Order 56: Assess available loss information.** (43 days)
- Order 57: Determine preferred method for storing data (GIS field, other database, etc.).** (10 days)
- Order 58: Calculate losses.** (43 days)
- Order 59: Process loss data into the selected storage medium.** (45 days)
- Order 60: Assess available vulnerability information.** (43 days)
- Order 61: Determine preferred method for storing data (GIS field, other database, etc.).** (23 days)
- Order 62: Develop vulnerability assessment processes.** (22 days)
- Order 63: Coordinate data collection efforts with substation inspection plan.** (22 days)
- Order 64: Collect vulnerability data.** (1109 days)
- Order 65: Enter data into the selected storage medium.** (67, 68 days)
- Order 66: Assess available critical and priority load information.** (43 days)
- Order 67: Coordinate with order 2 to identify candidates for supplementary interconnection studies.** (22 days)
- Order 68: Determine preferred method for storing data (GIS field, other database, etc.).** (72 days)
- Order 69: Collect and aggregate load and study candidate information.** (22 days)
- Order 70: Enter load and study information into the selected storage medium.** (45 days)
- Order 71: Assess quality of pole data in GIS; identify gaps.** (43 days)
- Order 72: Coordinate data collection efforts with GIS data collection and verification plan.** (22 days)
- Order 73: Prepare GIS and asset data collection RFP.** (110 days)
- Order 74: Collect missing data.** (3155, 79 days)
- Order 75: Aggregate and process data into the selected storage medium.** (3170 days)
- Order 76: Assess quality of pole data in GIS; identify gaps.** (43 days)
- Order 77: Coordinate data collection efforts with GIS data collection and verification plan.** (22 days)
- Order 78: Prepare GIS and asset data collection RFP.** (110 days)
- Order 79: Collect missing data.** (80, 3255 days)
- Order 80: Aggregate and process data into the selected storage medium.** (80, 3355 days)

